

ABSTRACT OF THE DISCLOSURE

A CMOS image sensor includes a plurality of pixels each having a photo-sensitive element that receives light that is converted into charge and conversion circuitry that converts the charge into a voltage signal; wherein the plurality of pixels are integrated at substantially a same time; and readout electronics that receives the voltage signal from the conversion circuitry of the plurality of pixels and passes the charge therefrom; wherein the readout electronics are de-energized during substantial integration of the pixels and energized during readout.